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1   CDMA-based MAC protocol for wireless ad hoc networks

⬧   Alaa Muqattash, Marwan Krunz
June   MobiHoc '03: Proceedings of the 4th ACM international symposium on Mobile
2003   ad hoc networking & computing
Publisher: ACM

Full text available: ▦ pdf(308.12 KB)   Additional Information: full citation, abstract, references, cited by, index terms

We propose a CDMA-based power controlled medium access protocol for mobile ad hoc networks (MANETs). Unlike previously proposed protocols, ours accounts for the multiple access interference (MAI), thereby addressing the notorious near-far problem that ...

Keywords: CDMA, ad hoc networks, code assignment, multi-access interference, near-far problem, power control

2 An uplink CDMA system architecture with diverse QoS guarantees for heterogeneous traffic

Sunghyun Choi, Kang G. Shin
October 1999   IEEE/ ACM Transactions on Networking (TON),   Volume 7 Issue 5
Publisher: IEEE Press

Full text available: pdf(408.20 KB)
Additional Information: full citation, references, cited by, index terms

Keywords: CDMA systems, QoS guarantees, admission control, automatic retransmission reQuest, multicode CDMA, power control, reed-Solomon/convolutional concatenated code, transmission-rate request access protocol, wireless/mobile communication

3 TCP-aware resource allocation in CDMA networks

Majid Ghaderi, Ashwin Sridharan, Hui Zang, Don Towsley, Rene Cruz
September 2006   MobiCom '06: Proceedings of the 12th annual international conference on Mobile computing and networking
Publisher: ACM

Full text available: pdf(338.78 KB)
Additional Information: full citation, abstract, references, index terms

TCP is the dominant transport protocol over both wired and wireless links. It is however, well known that TCP is not suitable for wireless networks and several solutions have been proposed to rectify this shortcoming. In this work, we explore cross-layer ...

Keywords: TCP throughput, cross-layer optimization, rate adaptation, wireless networks

4 Optimal policies for handoff and channel assignment in networks of LEO satellites using CDMA

Yu-Wen Chang, Evaggelos Geraniotis
February 1998   Wireless Networks,   Volume 4 Issue 2
Publisher: Kluwer Academic Publishers

Full text available: pdf(430.09 KB)
Additional Information: full citation, abstract, references, index terms

In this paper, we formulate the combined handoff and channel assignment problems in a CDMA LEO satellite network as a reward/cost optimization problem. The probabilistic properties of signals (channel fading as function of satellite elevation angle) ...

5 Policing congestion response in an internetwork using re-feedback

Bob Briscoe, Arnaud Jacquet, Carla Di Cairano-Gilfedder, Alessandro Salvatori, Andrea Soppera, Martin Koyabe

October 2005   ACM SIGCOMM Computer Communication Review,   Volume 35 Issue 4

Publisher: ACM

Full text available: pdf(361.70 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper introduces a novel feedback arrangement, termed re-feedback. It ensures metrics in data headers such as time to live and congestion notification will arrive at each relay carrying a truthful prediction of the remainder of their path. We propose ...

Keywords: QoS, characterisation, congestion, incentives, policing

6 A case study of mapping a software-defined radio (SDR) application on a reconfigurable DSP core

Behzad Mohebbi, Eliseu Chavez Filho, Rafael Maestre, Mark Davies, Fadi J. Kurdahi

October 2003   CODES+ISSS '03: Proceedings of the 1st IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis

Publisher: ACM

Full text available: pdf(446.86 KB)   Additional Information: full citation, abstract, references, cited by, index terms

We present a case study involving the implementation of a complete Wideband CDMA (WCDMA) digital receiver part of an AMR channel onto a reconfigurable core. WCDMA is one of the two major standards for the third generation (3G) cellular systems. Traditionally ...

Keywords: reconfigurable computing, software-defined radio

7 Policing congestion response in an internetwork using re-feedback

Bob Briscoe, Arnaud Jacquet, Carla Di Cairano-Gilfedder, Alessandro Salvatori, Andrea Soppera, Martin Koyabe

August 2005   SIGCOMM '05: Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: pdf(361.70 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper introduces a novel feedback arrangement, termed re-feedback. It ensures metrics in data headers such as time to live and congestion notification will arrive at each relay carrying a truthful prediction of the remainder of their path. We propose ...

Keywords: QoS, characterisation, congestion, incentives, policing

8 User mobility profile prediction: an adaptive fuzzy inference approach

Xuemin Shen, Jon W. Mark, Jun Ye
November   Wireless Networks,   Volume 6 Issue 5
2000
Publisher: Kluwer Academic Publishers
Full text available: pdf(213.04 KB).

Additional Information: full citation, references, cited by, index terms

9 Cross-layer adaptive techniques for throughput enhancement in wireless OFDM-based networks

Iordanis Koutsopoulos, Leandros Tassiulas
October   IEEE/ACM Transactions on Networking (TON),   Volume 14 Issue 5
2006
Publisher: IEEE Press
Full text available: pdf(482.97 KB).

Additional Information: full citation, abstract, references, index terms

Although independent consideration of layers simplifies wireless system design, it is inadequate since: 1) it does not consider the effect of co-channel user interference on higher layers; 2) it does not address the impact of local adaptation actions ...

Keywords: cross-layer design, multicell systems, orthogonal frequency-division multiplexing (OFDM), resource allocation

10 Dynamic slot allocation (DSA) in indoor SDMA/TDMA using smart antenna basestation

Faisal Shad, Terence D. Todd, Vytas Kezys, John Litva
February   IEEE/ACM Transactions on Networking (TON),   Volume 9 Issue 1
2001
Publisher: IEEE Press
Full text available: pdf(208.90 KB).

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